Probable Glycine Dehydrogenase [Decarboxylating] Subunit 2 (gcvPB) Thermoanaerobacter Tengcongensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable glycine dehydrogenase [decarboxylating] subunit 2 (gcvPB), Recombinant Protein
Full Product Name	Recombinant Thermoanaerobacter tengcongensis Probable glycine dehydrogenase [decarboxylating] subunit 2 (gcvPB)
Product Gene Name	gcvPB recombinant protein
Product Synonym Gene Name	gcvPB; gcvP; TTE0293
Product Synonym Names	Probable glycine dehydrogenase [decarboxylating] subunit 2; EC=1.4.4.2; Glycine cleavage system P-protein subunit 2; Glycine decarboxylase subunit 2
Sequence	MLKEYNSLIF ELSKEGKKAY TLPPLDVEEK PLEDMLPKEM LREKEVDLPE VSEVDVIRHY TLLSQKNYGV DIGFYPLGSC TMKYNPKINE DMASLPGFTE LHPYQPEETV QGALKLMYEL EKALCEITGM DRFSLHPAAG AHGELTGLMI IKAYHEHRND KKRKKIIVPD SAHGTNPASA AVAGFDVIEI KSNKEGAIDL EALKAVLNDE VAGLMLTNPS TLGLFEENIV EIARLVHEAG GLLYYDGANL NAIMGISRPG DMGFDVVHLN LHKTFSTPHG GGGPGSGPVG VKKELADFLP VPTVEEKDGR YFLDYDRPLS IGKVRSFYGN FNVMIKAYSY ILTMGAEGLK RASELAVLNA NYLKEKLKGY YKVAVDKTCM HEFVLAGLAE KSGDVRTLDV AKRLIDYGFH PPTIYFPLIV EEALMIEPTE TETKETLDAF AETLIKIAKE AKENPELLKE APHNTPVRRL DEVLAARNPV IRWTK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	53,938 Da
Sequence Positions	1-485aa; full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8RCW2
Species	Thermoanaerobacter tengcongensis (strain DSM 15242 / JCM 11007 / NBRC 100824 / MB4) (Caldanaerobacter subterraneus subsp. tengcongensis)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gcvPB recombinant protein	MBS1329764 is a recombinant protein targeting gcvPB. Also known as Recombinant Thermoanaerobacter tengcongensis Probable glycine dehydrogenase [decarboxylating] subunit 2 (gcvPB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gcvPB recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for gcvPB. It may not necessarily be applicable to this product.

NCBI GI #	20806814
NCBI GeneID	996270
NCBI Accession #	NP_621985.1
UniProt Primary Accession #	Q8RCW2
UniProt Related Accession #	Q8RCW2
GenBank Nucleotide #	NC_003869.1
NCBI Official Full Name	glycine dehydrogenase subunit 2
NCBI Official Symbol	GcvP
UniProt Protein Name	Probable glycine dehydrogenase (decarboxylating) subunit 2
UniProt Synonym Protein Names	Glycine cleavage system P-protein subunit 2; Glycine decarboxylase subunit 2; Glycine dehydrogenase (aminomethyl-transferring) subunit 2
UniProt Gene Name	gcvPB
UniProt Entry Name	GCSPB_THETN
NCBI Protein Information	glycine dehydrogenase subunit 2
UniProt Comments for gcvPB	The glycine cleavage system catalyzes the degradation of glycine. The P protein binds the alpha-amino group of glycine through its pyridoxal phosphate cofactor; CO2 is released and the remaining methylamine moiety is then transferred to the lipoamide cofactor of the H protein.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/probable-glycine-dehydrogenase-decarboxylating-subunit-2-gcvpb/1329764